WEST Search History

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DATE: Monday, May 14, 2007

Hide?	<u>Set</u> Name	Query	<u>Hit</u> Count
	DB=F	PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ	
	L8	p185\$ adj (monkey or rhesus or macaca or mulatta)	. 0
	L7	L6 not 14	7
	L6	15 and (12 or v-erbb2 or mln19)	9
	DB=I	OWPI,JPAB,EPAB,USPT,PGPB; PLUR=YES; OP=ADJ	
	L5	("CILIBERTO-GENNARO".IN. "NUZZO-MAURIZIO".IN. "NUZZO-M".IN. "MONACI-PAOLO".IN. "MONACI-P".IN. "POMEZIA".IN. "POMEZIA-R".IN.)!	65
	DB=F	PGPB, USPT, EPAB, JPAB, DWPI; PLUR=YES; OP=ADJ	
	L4	(L2 or mln19) adj15 (monkey or rhesus or macaca or mulatta)	7
	L3	(L2 or mln19) adj8 (monkey or rhesus or macaca or mulatta)	7
	L2	her2 or neu or verbb2 or (avian erythroblastic leukemia viral oncogene) or (neuroglioblastoma derived oncogene) or ngl or (cerb b2) or (c-erbb2) or (verbb2) or (avian erythroblastic leukemia viral) or tkr1 or (cerb-b2) or herstatin	15852
	DB=U	USPT; PLUR=YES; OP=ADJ	
	L1	her2 or neu or verbb2 or (avian erythroblastic leukemia viral oncogene) or (neuroglioblastoma derived oncogene) or ngl or (cerb b2) or (c-erbb2) or (verbb2) or (avian erythroblastic leukemia viral) or tkr1 or (cerb-b2) or herstatin	6754

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 13:44:08 ON 14 MAY 2007)

FILE 'MEDLINE, CAPLUS, EMBASE' ENTERED AT 13:44:30 ON 14 MAY 2007

FILE 'MEDLINE, CAPLUS, EMBASE' ENTERED AT 13:44:44 ON 14 MAY 2007
24928 S 2 HER2 OR NEU OR VERBB2 OR (AVIAN ERYTHROBLASTIC LEUKEMIA VIR
9 S L1 (15A) (MONKEY OR MACACA OR RHESUS OR MULATTA)

L3 5 DUP REM L2 (4 DUPLICATES REMOVED)

=>

L1

L2

ExactAntigen



Gene Search Result For her2

Search <u>her2</u> for species Search <u>her2</u> among product webpages

Human	Mouse	Rat	Others	
ERBB2 antibody siRNA ELISA recombinant protein cDNA clone synonyms: her2 neu; her2; verbb2 avian erythroblastic leukemia viral oncogene homolog 2 neuro glioblastoma derived oncogene homolog; ngl; cerb b2; verbb2 avian erythroblastic leukemia viral oncog; tkr1; tyrosine kinase type cell surface receptor; neu; cerb b2 neu; herstatin; neuroblastoma glioblastoma derived oncogene homolog; neuroblastoma glioblastoma derived oncogene homolo; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homol CASC4 antibody siRNA cDNA clone synonyms: gene associated with her2 neu overexpression; h63; dkfzp459f1927; mgc74708; cancer susceptibility candidate 4				
			search.	
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5/14/2007

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 22 July 2004 (22.07.2004)

PCT

(10) International Publication Number WO 2004/061105 A1

- (51) International Patent Classification7: C12N 15/12, 15/861, 5/16, C07K 14/71, C12P 21/02, A61K 38/17, 48/00
- (21) International Application Number:

PCT/EP2003/014997

(22) International Filing Date:

29 December 2003 (29.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

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3 January 2003 (03.01.2003)

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- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CILIBERTO, Gennaro [IT/IT]; IRBM, Via Pontina Km. 30, 600, I-00040 Pomezia (Rome) (IT). LAHM, Armin [DE/IT]; IRBM,

Via Pontina Km. 30, 600, I-00040 Pomezia (Rome) (IT). LA MONICA, Nicola [IT/IT]; IRBM, Via Pontina Km. 30, 600, I-00040 Pomezia (Rome) (IT). MONACI, Paolo [IT/IT]; IRBM, Via Pontina Km. 30, 600, I-00040 Pomezia (Rome) (IT). NUZZO, Maurizio [IT/IT]; IRBM, Via Pontina Km. 30, 600, I-00040 Pomezia (Rome) (IT).

- (74) Agent: MAN, Jocelyn; Merck & Co., Inc., European Patent Department, Terlings Park, Eastwick Road, Harlow, Essex CM20 2QR (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: RHESUS HER2/NEU, NUCLEOTIDES ENCODING SAME, AND USES THEREOF

Predicted Amino Acid Sequence of First Rhesus Her2/Neu Protein (SEQ ID NO:2)

1 MELAAWYRWG LLLALLPPGA AGTQVCTGTD MKLRLPASPE THLDMLRHLY QGCQVVQGNL 61 ELTYLPTNAS LSFLQDIQEV QGYVLIAHNQ VRQVPLQRLR IVRGTQLFED NYALAVLDNG

121 DLLNNTTPVT GASPGGLREL QLRSLTEILK GGVLIQRNPQ LCYQDTILWK DIFHKNNQLA

181 LTLIDTNRSR ACHPCSPVCK GSRCWGESSE DCQSLTRTVC AGGCARCKGP LPTDCCHEQC

241 AAGCTGPKHS DCLACLHFNH SGICELHCPA LVTYNTDTFE SMPNPEGRYT FGASCVTACP

301 YNYLSTDVGS CTLVCPLHNQ EVTAEDGTQR CEKCSKPCAR VCYGLGMEHL REVRAVTSAN

361 IQEFAGCKKI FGSLAFLPES FDGDPASNTA PLOPEQLRVF ETLEEITGYL YISAWPDSLP

421 DLSVLQNLQV IRGRILHNGA YSLTLQGLGI SWLGLRSLRE LGSGLALIHH NTRLCFVHTV

481 PWDQLFRNPH QALLHTANRP EDECVGEGLA CHQLCARGHC WGPGPTQCVN CSQFLRGQEC

541 VEECRVLQGL PREYVNARHC LPCHPECQPQ NGSVTCFGPE ADQCVACAHY KDPPFCVARC 601 PSGVKPDLSY MPIWKFPDEE GTCOSCPINC THSCVDLDDK GCPAEQRASP LTSIISAVVG

661 ILLVVVLGVV FGILIKRRQQ KIRKYTMRRL LQETELVEPL TPSGAMPNQA QMRILKETEL

721 RKVKVLGSGA FGTVYKGIWI PDGENVKIPV AIKVLRENTS PKANKEILDE AYVMAGVGSP

781 YVSRLLGICL TSTVQLVTQL MPYGCLLDHV RENRGRLGSQ DLLNWCMQIA KGMSYLEDVR

841 LVHRDLAARN VLVKSPNHVK ITDFGLARLL DIDETEYHAD GGKVPIKWMA LESILRRRFT

901 HQSDVWSYGV TVWELMTFGA KPYDGIPARE IPDLLEKGER LPQPPICTID VYMIMVKCWM

961 IDSECRPRFR ELVSEFSRMA RDPQRFVVIQ NEDLGPASPL DSTFYRSLLE DDDMGDLVDA

1021 EEYLVPQQGF FCPDPAPGTG GMVHHRHRSS STRSGGGDLT LGLEPSEEEA PRSPRAPSEG 1081 TGSDVFDGDL GMGAAKGLOS LPAHDPSPLO RYSEDPTVPL PSETDGYVAP LTCSPQPEYV

1141 NOPDVRPQPP SPQEGPLSPA RPTGATLERP KTLSPGKNGV VKDVFAFGGA VENPEYLAPR

1201 GGAAPQPHLP PAFSPAFDNL YYWDQDPSER GAPPSTFKGT PTAENPEYLG LDVPV*

(57) Abstract: Polynucleotides encoding rhesus monkey HER2/neu have been isolated, cloned and sequenced. The gene encoding the HER2/neu is commonly associated with the development of epithelial-derived human carcinomas. The present invention provides compositions and methods to elicit or enhance immunity to the protein product expressed by the HER2/neu tumor-associated antigen, wherein aberrant HER2/neu expression is associated with a carcinoma or its development. This invention specifically provides adenoviral vector constructs carrying rhHER2/neu and discloses their use in vaccines and pharmaceutical compositions for



preventing and treating cancer.

INTERNATIONAL SEARCH REPORT





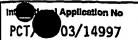
A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/12 C12N15/861 C07K14/71 C12P21/02 C12N5/16 A61K38/17 A61K48/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7K A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, SEQUENCE SEARCH, BIOSIS, MEDLINE, EMBASE C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to dalm No. 1-20 WO 02/14503 A (HAND ZIMMERMANN SUSAN ;CORIXA CORP (US); FOY TERESA M (US); KALOS) 21 February 2002 (2002-02-21) page 3, line 1 -page 6, line 9 page 9, line 14 -page 14, line 10 page 38, line 12 -page 41, line 4 page 56, line 22 -page 83, line 29; Sequence Listing: SEQ ID NOs: 1 and 2 1-20 Y WO 02/13847 A (HAND ZIMMERMANN SUSAN ;CORIXA CORP (US); CHEEVER MARTIN A (US); GA) 21 February 2002 (2002-02-21) page 2, line 9 -page 4, line 13 page 6, line 4 -page 17, line 11 page 23, line 15 -page 34, line 3 Sequence Listing: SEQ ID NOs: 1 and 2 Patent family members are listed in annex. Further documents are listed in the continuation of box C. X Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority cialm(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-*O* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 27 May 2004 04/06/2004 **Authorized officer** Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2

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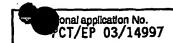
Donath, C

INTERNATIONAL SEARCH REPORT



		PC1/ 03/1499/
C.(Continua	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 869 445 A (DISIS MARY L ET AL) 9 February 1999 (1999-02-09) column 2, line 25 -column 3, line 12 column 6, line 27 - line 53; example 4 Sequence Listing: SEQ ID NOs: 1 and 2	1-20
A	FENDLY B M ET AL: "SUCCESSFUL IMMUNIZATION OF RHESUS MONKEYS WITH THE EXTRACELLULAR DOMAIN OF P185HER2: A POTENTIAL APPROACH TO HUMAN BREAST CANCER" VACCINE RESEARCH, MARY ANN LIEBERT, INC., PUBLISHERS, US, vol. 2, no. 3, 1993, pages 129-139, XP009030428 abstract	1-20
A	DISIS M L ET AL: "HER-2/NEU PROTEIN: A TARGET FOR ANTIGEN-SPECIFIC IMMUNOTHERAPY OF HUMAN CANCER" ADVANCES IN CANCER RESEARCH, ACADEMIC PRESS, LONDON, GB, vol. 71, 1991, pages 343-371, XP000982776 ISSN: 0065-230X the whole document	1-20
A	HUNG M-C ET AL: "HER-2/NEU-TARGETING GENE THERAPY - A REVIEW" GENE, ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, NL, vol. 159, no. 2, 1995, pages 65-71, XP002057855 ISSN: 0378-1119 the whole document	1-20
		*





Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 8-11 and 14-20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Cialms Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This int	emational Searching Authority found multiple Inventions in this international application, as follows:
i mo un	emanoral Searching Audiony tourio manipe invertions in this membrational appropriate, as longitus.
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1.	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remar	tk on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

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L4: Entry 2 of 7

File: PGPB

Oct 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060228335

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060228335 A1

TITLE: Rhesus carcino embryonic antigen, nucleotides encoding same, and uses thereof

PUBLICATION-DATE: October 12, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Aurisicchio; Luigi	Rahway	NJ	US
Palombo; Fabio	Rome		IT
Monaci; Paolo	Roma		. IT
La Monica; Nicola	Rome		IT
Ciliberto; Gennaro	Rome		· IT
Lahm; Armin	Rome		IT

APPL-NO: 10/545515 [PALM] DATE FILED: February 9, 2004

RELATED-US-APPL-DATA:

us-provisional-application US 60447203 20030213

PCT-DATA:

DATE-FILED	APPL-NO	PUB-NO	PUB-DATÉ	371-DATE
Feb 9. 2004	PCT/EP04/01181			Aug 15, 2005

INT-CL-PUBLISHED:

TYPE	IPC	DATE	IPC-OLD
IPCP	A61K48/00	20060101	A61K048/00
IPCS	C07H21/04	20060101	C07H021/04
IPCS	C12P21/06	20060101	C12P021/06
IPCS	C07K14/82	20060101	C07K014/82
IPCS	C12N5/06	20060101	C12N005/06

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	<u>A61 K 48/00</u>	20060101
CIPS	CO7 H 21/04	20060101
CIPS	<u>C07 K 14/82</u>	20060101
CIPS	<u>C12 N 5/06</u>	20060101
CIPS	C12 P 21/06	20060101

US-CL-PUBLISHED: 424/093.2; 514/044, 435/069.1, 435/320.1, 435/362, 530/350, 536/023.5 US-CL-CURRENT: $\underline{424}/\underline{93.2}$; $\underline{435}/\underline{320.1}$, $\underline{435}/\underline{362}$, $\underline{435}/\underline{69.1}$, $\underline{514}/\underline{44}$, $\underline{530}/\underline{350}$, $\underline{536}/\underline{23.5}$

ABSTRACT:

DNAs encoding rhesus monkey carcinoembryonic antigen (rhCEA) have been isolated, cloned and sequenced. The gene encoding CEA is commonly associated with the development of human carcinomas. The present invention provides compositions and methods to elicit or enhance immunity to the protein product expressed by the CEA tumor-associated antigen, wherein aberrant CEA expression is associated with a carcinoma or its development. This invention specifically provides adenoviral vector constructs carrying rhCEA and discloses their use in vaccines and pharmaceutical compositions for preventing and treating cancer.

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DOCUMENT-IDENTIFIER: US 20060228335 A1

TITLE: Rhesus carcino embryonic antigen, nucleotides encoding same, and uses thereof

Description of Disclosure:

[0129] The same group of animals was boosted by injection of a mixture of three Ad5-expressing rhesus CEA (Ad5-rhCEA), rhesus HER2/neu (Ad5-rhHER2), and rhesus EpCAM (Ad5-rhEpCAM). A total amount of 3.times.10expl1 viral particles (vp), were injected i.m. at weeks 23 and 27 (1.times.10expl1 vp for each of the three viruses).

Description of Disclosure:

[0133] The cell mediated response was measured by IFN.gamma. ELISPOT assay. For Her2/Neu, three out of four monkeys showed a detectable response. No significant cell mediated responses were measured for rhCEA and rhEpCAM.

Description of Disclosure:

[0134] In summary, the immunization protocol discussed above was effective in inducing a specific immune response against rhHER2/neu in rhesus monkeys. It is unclear why co-immunization with vectors carrying three different tumour antigens was not effective in inducing an innume response against rhCEA, as compared to study 1, which used only rhCEA as immunogen. Though not wishing to be bound by theory, it is possible that the expression of rhHER2/Neu and the presence of immunodominant epitopes limited the generation and the expansion of subdominant rhCEA specific T-cells.

Previous Doc Next Doc Go to Doc#

<!--StartFragment--> Query Match 99.6%; Score 6777; DB 8; Length 1255; Best Local Similarity 99.6%; Pred. No. 0; Matches 1250; Conservative 0; Mismatches 5; Indels 0; Gaps 0; **NO: YI** 1 MELAAWYRWGLLLALLPPGAAGTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNL 60 Qу **№** 2 1 MELAAWYRWGLLLALLPPGAAGTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNL 60 Db 61 ELTYLPTNASLSFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNG 120 Qу 61 ELTYLPTNASLSFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNG 120 Db 121 DLLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLA 180 Qу 121 DPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLA 180 Db 181 LTLIDTNRSRACHPCSPVCKGSRCWGESSEDCQSLTRTVCAGGCARCKGPLPTDCCHEQC 240 Qу 181 LTLIDTNRSRACHPCSPVCKGSRCWGESSEDCQSLTRTVCAGGCARCKGPLPTDCCHEQC 240 Db 241 AAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACP 300 Qу 241 AAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACP 300 Db 301 YNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSAN 360 Qу 301 YNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSAN 360 Db 361 IQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLRVFETLEEITGYLYISAWPDSLP 420 Qу 361 IQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLRVFETLEEITGYLYISAWPDSLP 420 Db 421 DLSVLQNLQVIRGRILHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHHNTRLCFVHTV 480 Qу 421 DLSVLONLOVIRGRILHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHHNTRLCFVHTV 480 Db 481 PWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGPTQCVNCSQFLRGQEC 540 Qν 481 PWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCAXGHCWGPGPTQCVNCSQFLRGQEC 540 Db 541 VEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVARC 600 Qу 541 VEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVARC 600 Db 601 PSGVKPDLSYMPIWKFPDEEGTCQSCPINCTHSCVDLDDKGCPAEQRASPLTSIISAVVG 660. Qу 601 PSGVKPDLSYMPIWKFPDEEGTCQPCPINCTHSCVDLDDKGCPAEQXASPLTSIISAVVG 660 Db 661 ILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETEL 720 Qу Db 661 ILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETEL 720 721 RKVKVLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSP 780 Qу 721 RKVKVLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSP 780 Db 781 YVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRGRLGSQDLLNWCMQIAKGMSYLEDVR 840 Qу 781 YVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRGRLGSQDLLNWCMQIAKGMSYLEDVR 840 Db 841 LVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVPIKWMALESILRRRFT 900 Qy 841 LVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVPIKWMALESILRRRFT 900 Db 901 HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWM 960 Qу

901 HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWM 960

Db

Qу	961	IDSECRPRFRELVSEFSRMARDPQRFVVIQNEDLGPASPLDSTFYRSLLEDDDMGDLVDA	1020
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Qу	1021	EEYLVPQQGFFCPDPAPGTGGMVHHRHRSSSTRSGGGDLTLGLEPSEEEAPRSPRAPSEG	1080
Db .	1021	EEYLVPQQGFFCPDPAPGTGGMVHHRHRSSSTRSGGGDLTLGLEPSEEEAPRSPXAPSEG	1080
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Db	1081	TGSDVFDGDLGMGAAKGLQSLPAHDPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYV	1140
Qу	1141	NQPDVRPQPPSPQEGPLSPARPTGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLAPR	1200
Db	1141	NQPDVRPQPPSPQEGPLSPARPTGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLAPR	1200
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Db	1201		

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